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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/516,302	12/09/2004	Hitoshi Yoshimori	040645	5589	
23850	7590 09/13/2006		EXAMINER		
ARMSTRONG, KRATZ, QUINTOS, HANSON & BROOKS, LLP			MAI, ANH T		
1725 K STRE SUITE 1000	ET, NW	ART UNIT	PAPER NUMBER		
WASHINGTON, DC 20006			2832		

DATE MAILED: 09/13/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application	n No.	Applicant(s)				
Office Action Summary		10/516,30	2	YOSHIMORI, HITOSHI				
		Examiner		Art Unit				
		Anh T. Mai	i	2832				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply								
A SHO WHIC - Exter after - If NO - Failu Any r	ORTENED STATUTORY PERIOD FOR RECHEVER IS LONGER, FROM THE MAILIN asions of time may be available under the provisions of 37 Cf SIX (6) MONTHS from the mailing date of this communication period for reply is specified above, the maximum statutory pre to reply within the set or extended period for reply will, by seely received by the Office later than three months after the part of the provided patent term adjustment. See 37 CFR 1.704(b).	G DATE OF TH FR 1.136(a). In no eve on. period will apply and will statute, cause the appli	IS COMMUNICATION nt, however, may a reply be tim I expire SIX (6) MONTHS from cation to become ABANDONEI	I. tely filed the mailing date of this co (35 U.S.C. § 133).				
Status								
2a)⊠	Responsive to communication(s) filed on this action is FINAL . 2b) Since this application is in condition for all closed in accordance with the practice uncondition.	This action is no lowance except	for formal matters, pro		e merits is			
Dispositi	on of Claims							
 4) ☐ Claim(s) 1-8 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-8 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or election requirement. 								
Applicati	on Papers							
10)	The specification is objected to by the Exa The drawing(s) filed on is/are: a) Applicant may not request that any objection to Replacement drawing sheet(s) including the co The oath or declaration is objected to by the	accepted or b) the drawing(s) b prrection is require	e held in abeyance. See ed if the drawing(s) is obj	e 37 CFR 1.85(a). jected to. See 37 C				
Priority u	ınder 35 U.S.C. § 119							
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau.(PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 								
2) Notice 3) Information	t(s) e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-94- mation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date	8)	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ate				

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DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

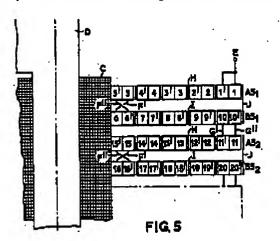
A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1-8 are rejected under 35 U.S.C. 102(b) as being anticipated by Bedil [3160838]. Bedil discloses an air-core coil comprising:
 - unit coil portions A1, B1, A2, B2 each having at least one conductor wound into a spiral form;
 - the unit coil portions being arranged repeatedly axially of the coil;
 - each of the unit coil portions comprising a plurality of unit turn portions 1, 2, 3... which are different from each other in inner peripheral length;
 - the unit turn portions of small inner peripheral being at least partly forced inwardly of and adjacent to the unit turn portions of great inner peripheral length [coil turn 2 is smaller than coil turn 1 in peripheral length];
 - the plurality of unit turn portions providing each of the unit coil portions are
 sequentially wound from the outer peripheral side to the inner peripheral side [from 1 to
 10];
 - one unit turn portion of the inner most periphery being connected to another unit turn on an innermost periphery F of the adjacent unit coil;

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- whereby each of the unit coil portions is made at least partly multi-layered.



Referring to FIG. 1 of the drawings, the high-votings winding of the trensformer comprises a number of colls, the first cell countring of a pair of panesks sections A₁. B₂ the second and having a pair of section A₂. B₃ and con. Each coll is wound as an insulated strip conductor concerning the low-voltage winding C and its surrounding hautestion, the low-voltage winding is turn surrounding hautestion, the low-voltage winding in turn surrounding hautestion, the low-voltage winding in turn surrounding hautestion.

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Successive turns of the inverti-quiviling conductor of section A, are indicated at 1, 2, 3, ..., 10, the outsmost turn 1 being directly connected to the high-potential terminal B of the transformer. The second section B₂ is similar to section A₃, but the conductor spirals subvaried, successive turns being indicated at 11, 12, 13, ..., 20. The invertible turns 11 of section A₄ is connected to the imagement turn 11 of section B₂ by connected to the imagement turn 11 of section B₂ by connected F, and this currence turn 20 of section B₂ by connected to the outcoment turn 31 of the adjacent section A₄ by connection G. It will be understood that one or both of connections F and/or G may consist of the uninterrupted currence outless conductors itself.

With respect to claims 3-4, Bedil discloses the air-core coil fitted around a core D [figure 1, col 1, lines 49-69].

With respect to claims 6-8, the claim is method counterpart of structure claims 1-5, the methods steps therefore inherent for manufacturing a coil comprising windings being wound in the multilayer fashion.

Response to Arguments

3. Applicant's arguments filed July 11, 2006 have been fully considered but they are not persuasive.

Applicant argues that the invention has *no metal foil conductors interleaved between successive turns*. The examiner disagrees; the claim does not recite that limitation. Further it is, of course, apparent that the elimination of the metal foil eliminates the functions of those elements. It is well settled, however, that omission of an element and its function in a combination is an obvious expedient if the remaining elements perform the same functions as before. In re

Nelson, 40 CCPA 708, 198 F.2d 837, 95 USPQ 82; In re Eliot, 22 CCPA 1088, 76 F.2d 309, 25

USPQ 111.

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Conclusion

4. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Anh T. Mai whose telephone number is 571-272-1995. The examiner can normally be reached on 5/4/9 Schedule.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Elvin Enad can be reached on 571-272-1990. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Anh T. Mai Primary Examiner

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